

USER & PARTS MANUAL

Central Plains Industries, LLC

Custom Metal Fabrication from Design to Delivery

ReFueled[®] Trailer



Central Plains Industries, LLC

42980 US HWY 212

Clark, SD 57225

Phone – 605-532-3829

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www.cpindust.com

Table of contents

Warranty and Owner Reference	3 - 6
General Safety and symbols	7 - 15
Tire Safety	16 - 18
Specifications	19
1993 Diesel placard placement	19 - 20
General operation	20 - 23
Parts	24 - 28
Optional DL (Deluxe Model) Safety and General information	29 - 44

Warranty

The undersigned dealer, by signing this manufacture's Limited Warranty, states that he/she has informed and explained to the purchaser all limited warranty and claim procedures and will perform all responsibilities of the dealer under this Limited Warranty.

IF THIS WARRANTY IS NOT SIGNED, POSTMARKED AND MAILED TO CENTRAL PLAINS INDUSTRIES,LLC BY THE FIFTEENTH DAY AFTER YOUR PURCHASE OF THE TRAILER, ALL EXPRESS WARRANTIES SHALL BE NULL AND VOID.

By signing this manufacturer's Limited Warranty, THE PURCHASER ACKNOWLEDGES THAT HE OR SHE HAS READ THE BELOW LIMITED WARRANTY AND AGREES THAT, SHOULD ANY WARRANTY CLAIMS BE MADE BY PURCHASER, PURCHASER WILL FOLLOW THE PROCEDURES AS SET FORTH BELOW.

Dealership		Purchaser Signature	Date
Dealer Signature	Date	Purchaser (Print Name)	
Model Purchased		Purchaser Mailing Address	
V.I.N. #	City	State	Zip () Telephone Number

MANUFACTURERS WARRANTY

CENTRAL PLAINS INDUSTRIES, LLC HERE WARRANTS THAT EACH HILLCREST Trailer operated by the original purchaser under normal use in the Continental United States or Canada will be free from defects in materials and workmanship for one year following the original purchase, subject to the requirements, exclusions and limitations stated below which will be strictly applied. If the trailer is rented or used for commercial transporting, this Limited Warranty is null and void.

YOU MUST SEND COPY OF WARRANTY

In order to validate this Limited Warranty, the original copy of this form, signed by the dealer and the purchaser, must be postmarked and mailed to CENTRAL PLAINS INDUSTRIES,LLC; 42980 US HWY 212; Clark, SD 57225

no later than fifteen (15) days following the purchase of your HILLCREST Trailer. IF THIS SIGNED WARRANTY IS NOT POSTMARKED BY THE FIFTEENTH DAY AFTER PURCHASE OF THE TRAILER, ALL EXPRESS WARRANTIES CONTAINED IN THIS LIMITED WARRANTY SHALL BE NULL AND VOID.

ONE YEAR LIMITED WARRANTY

Subject to the requirements, exclusions and limitations stated below, the structure of your HILLCREST Trailer is warranted to the original retail purchaser against defects in materials and workmanship by HILLCREST Manufacturing LLC, arising from normal use for one (1) year from the date of purchase.

LIMITED PAINT WARRANTY

CENTRAL PLAINS INDUSTRIES,LLC warrants its paint finish to be consistent with industry standards for one year after the date of original retail purchase, with the exceptions of "normal use" limitations set forth below and of deterioration due to use or exposure, such as chipping, scratching, fading, cracks in caulk seams, road salt or tar, damage by animals or pressure washing. Warrantable paint repairs are limited to spot repairs and blending consistent with standards in the trailer industry.

EXCLUSION OF COMPONENTS WARRANTED BY OTHER MANUFACTURERS

All components that are not manufactured by CENTRAL PLAINS INDUSTRIES,LLC , including but not limited to: tires, wheels, axles, brake components, springs and suspension components, couplers, jacks, castors, mats, batteries, sealants, that are purchased and installed by CENTRAL PLAINS INDUSTRIES,LLC are warranted by their manufacturers and are excluded from this Limited Warranty.

This Limited Warranty extends only to materials used or workmanship performed byCENTRAL PLAINS INDUSTRIES,LLC or its employees in the construction of the original trailer, subject to all limitations and exclusions set forth herein. CENTRAL PLAINS INDUSTRIES,LLC EXPRESSLY DISCLAIMS AND EXCLUDES ANY RESPONSIBILITY OR LIABILITY FOR ANY MATERIALS OR WORKMANSHIP IN ANY ITEMS INSTALLED OR FOR STRUCTURAL FAILURE DUE TO ANY MODIFICATIONS MADE TO CENTRAL PLAINS INDUSTRIES,LLC PRODUCTS BY ANY OTHER PERSON OR COMPANY, INCLUDING ANY INCIDENTAL,OR CONTINGENT LIABILITIES ARISING THERE FROM.

NORMAL USE, NO REPAIRS OR ALTERATIONS

This Limited Warranty covers only defects in original components which arise from normal use and does not apply if the trailer has been subject to accident, abuse, misuse, corrosion, neglect or overload or has been repaired or altered without the prior written consent of CENTRAL PLAINS INDUSTRIES,LLC Normal wear items, including but not limited to doors, rubber matting, lights, bearings, brakes, brake linings, tires and batteries, will not be replaced due to wear. Loading in excess of gross vehicle load ratings stated on the identification plate will invalidate any and all warranties.

TRANSPORTATION COSTS EXCLUDED

Transportation of any trailer to and/or from your dealer or any approved repair facility shall be the responsibility of the trailer owner. CENTRAL PLAINS INDUSTRIES,LLC shall not be liable for any such costs.

PRIOR WRITTEN CONSENT REQUIRED AND RETURN OF DEFECTIVE PARTS REQUIRED

No reimbursement will be made to any dealer or owner for repairs made without the prior written consent of CENTRAL PLAINS INDUSTRIES,LLC Any defective part(s) must be sent by prepaid freight to CENTRAL PLAINS INDUSTRIES,LLC, in order to be considered for replacement or reimbursement under this Limited Warranty.

OTHER PRODUCTS EXCLUDED

This Limited Warranty applies exclusively to CENTRAL PLAINS INDUSTRIES,LLC trailers manufactured by CENTRAL PLAINS INDUSTRIES,LLC. Any other products manufactured by CENTRAL PLAINS INDUSTRIES,LLC are specifically excluded from this warranty. Authorized repairs do not extend the term of this Limited Warranty.

LIMITATIONS

THE SOLE RESPONSIBILITY OF CENTRAL PLAINS INDUSTRIES,LLC UNDER THIS LIMITED WARRANTY SHALL BE TO REPAIR AND OR REPLACE PARTS AT THE CENTRAL PLAINS INDUSTRIES,LLC FACTORY OR, FOR A REASONABLE ALLOWANCE AT ANOTHER PLACE AND PREPARED IN WRITING BY CENTRAL PLAINS INDUSTRIES,LLC . ALL OTHER OBLIGATIONS OR

LIABILITIES, INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES ARISING OUT OF THE FAILURE OF ANY PARTS TO OPERATE PROPERLY, ARE HEREBY EXCLUDED, INCLUDING BUT NOT LIMITED TO ANY DAMAGES RESULTING FROM LOSS OF USE, INCONVENIENCE, LOSS OF TIME, COMMERCIAL LOSS OR ANY OTHER TYPE OF DAMAGES, GENERAL OR SPECIFIC, FORESEEN OR UNFORESEEN, UNLESS APPLICABLE STATE LAW PROVIDES OTHERWISE. ANY DAMAGES CAUSED BY OR ATTRIBUTED TO ANY ACT OF GOD WHATSOEVER IS NOT COVERED BY THIS LIMITED WARRANTY.

DISCLAIMERS

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND REPRESENTATIONS. CENTRAL PLAINS INDUSTRIES,LLC MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, WITH RESPECT TO CENTRAL PLAINS INDUSTRIES,LLC WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. NO ONE, INCLUDING AN AUTHORIZED CENTRAL PLAINS INDUSTRIES INC. DEALER IS AUTHORIZED TO MAKE FURTHER OR ADDITIONAL WARRANTIES ON BEHALF OF CENTRAL PLAINS INDUSTRIES,LLC .

ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR INTENDED USE ARE LIMITED TO WARRANTY PERIODS STATED ABOVE, UNLESS ANY APPLICABLE STATE LAW PROVIDES OTHERWISE.

DEALER RESPONSIBILITIES

CENTRAL PLAINS INDUSTRIES,LLC Dealers are responsible for “dealer prep” which includes checking all cosmetic features, safety equipment, and repairing all minor problems without charge to you. Your Dealer is also responsible for submitting to the manufacturer any claim you wish to make under the terms of this Limited Warranty.

REQUIRED WARRANTY CLAIM PROCEDURE

In order to validate this Limited Warranty, the original copy of this form, signed by the dealer and the purchaser, must be postmarked to CENTRAL PLAINS INDUSTRIES,LLC no later than fifteen (15) days following the purchase of your CENTRAL PLAINS INDUSTRIES,LLC Trailer. IF THIS SIGNED WARRANTY IS NOT POSTMARKED BY THE FIFTEENTH DAY AFTER PURCHASE OF THE TRAILER, ALL EXPRESS WARRANTIES SHALL BE NULL AND VOID.

Within five (5) days after discovering a problem with your CENTRAL PLAINS INDUSTRIES,LLC TRAILER, notify your CENTRAL PLAINS INDUSTRIES,LLC dealer, or any other authorized CENTRAL PLAINS INDUSTRIES,LLC dealer. Dealers are responsible for fixing minor problems without charge to you.

If the dealer cannot repair the problem free of charge and you want to file a claim under this Warranty, the dealer must send to CENTRAL PLAINS INDUSTRIES,LLC , a limited warranty claim form, together with all required information, within ten (10) days of your discovery of the defect.

CENTRAL PLAINS INDUSTRIES,LLC will acknowledge such receipt of claim to the dealer. CENTRAL PLAINS INDUSTRIES,LLC will respond as soon as possible, but no later than thirty (30) days after receipt of the claim.

Any defective part(s) must be sent by prepaid freight to CENTRAL PLAINS INDUSTRIES,LLC in order to qualify the claimant for replacement or reimbursement consideration under this Limited Warranty. ANY DEFECTIVE PARTS MUST BE RETURNED TO CENTRAL PLAINS INDUSTRIES,LLC WITHIN 30 DAYS FROM DATE OF CLAIM TO QUALIFY FOR REIMBURSEMENT. CENTRAL PLAINS INDUSTRIES,LLC will not reimburse any claimant for any adjustment or repair of your CENTRAL PLAINS INDUSTRIES,LLC TRAILER without prior written approval from CENTRAL PLAINS INDUSTRIES,LLC .

If you return your trailer for repair to the factory, we will warrant the repair or replacement parts for ninety (90) days or the remainder of the Limited Warranty, whichever is longer, from the date of the repair. If authorized repair must be done other than at the factory, CENTRAL PLAINS INDUSTRIES,LLC will not warranty such repair work or replacement parts.

CENTRAL PLAINS INDUSTRIES,LLC reserves the right to not pay unreasonable costs for replacement or repair of defects in HILLCREST trailers and may, at its discretion, establish a reasonable reimbursement for any authorized work performed under the terms of this Limited Warranty.

CENTRAL PLAINS INDUSTRIES,LLC HERE MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTIES AND THERE ARE NO OTHER WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS LIMITED WARRANTY.

OWNER REFERENCE INFORMATION

Owner Name: _____

Owner Address: _____

Owner Phone Number: _____

Dealer Purchased from: _____

Dealer Phone Number: _____

Sales Person: _____

Model: _____

VIN Number: _____

Purchase Date: _____

Tire Brand & Size: _____

ReFueler® Trailer

WARNING

This User's Manual contains safety information and instructions for your *ReFueler® Trailer*.

You must read this manual before loading fuel or towing your trailer. You must follow all safety precautions and instructions.

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GENERAL SAFETY INFORMATION

SAFETY ALERT SYMBOLS AND SIGNAL WORDS

This manual provides instructions for the operation and care of your CENTRAL PLAINS INDUSTRIES,LLC Trailer. The instructions in this manual must be adhered to in order to ensure the safety of persons and satisfactory lifespan of the trailer. Safety precautions to protect against injury and property damage must be followed at all times.

An Owner's Manual that provides general trailer information cannot cover all of the specific details necessary for the proper combination of every trailer, tow vehicle and hitch. Therefore, you must read, understand and follow the instructions given by the tow vehicle and trailer hitch manufacturers, as well as the instructions in this manual.

Our trailers are built with components produced by various manufacturers. Some of these items have separate instruction manuals. Where this manual indicates that you should read another manual, and you do not have that manual, call **605-532-3829** for a free copy.

The safety information in this manual is denoted by the safety alert symbol: ^
The level of risk is indicated by the following signal words.

^ Danger

DANGER – Immediate hazards which WILL result in severe personal injury or death if the warning is ignored.

^WARNING – Hazards or unsafe practices which COULD result in severe personal injury or death if the warning is ignored.

^ Caution

CAUTION – Hazards or unsafe practices which could result in minor or moderate injury if the warning is ignored.

^ Notice

NOTICE – Practices that could result in damage to the trailer or other property.

MAJOR HAZARDS

Loss of control of the trailer or trailer/tow vehicle combination can result in death or serious injury. The most common causes for loss of control of the trailer are: Improper sizing the trailer for the tow vehicle, or vice versa.

Excessive Speed: Driving too fast for the conditions. Failure to adjust driving behavior when towing a

trailer.

Overloading and/or improper weight distribution. Improper or miss-coupling of the trailer to the hitch.
Improper braking and steering under sway conditions. Not maintaining proper tire pressure.
Not keeping lug nuts tight.

Improper Sizing of the Trailer to the Tow Vehicle.

Trailers that weigh too much for the towing vehicle can cause stability problems, which can lead to death or serious injury. Furthermore, the additional strain put on the engine and drive-train may lead to serious tow vehicle maintenance problems. For these reasons the maximum towing capacity of your towing vehicle should not be exceeded. The towing capacity of your tow vehicle, in terms of maximum Gross Trailer Weight (GTW) and maximum Gross Combined Weight Rating (GCWR) can be found in the tow vehicles Owner's Manual.

^ Danger

Use of a tow vehicle with a towing capacity less than the Gross Vehicle Weight Rating of the trailer can result in loss of control, and may lead to death or serious injury. Be sure your hitch and tow vehicle are rated for the Gross Vehicle Weight Rating of your trailer.

DRIVING TOO FAST

With ideal road conditions, the maximum recommended speed for safely towing a trailer is 60 mph. If you drive too fast, the trailer is more likely to sway, thus increasing the possibility for loss of control. Also your tires may overheat, thus increasing the possibility of a blowout.

Driving too fast for conditions can result in loss of control and cause death or serious injury. Decrease your speed when going downhill or as road, weather, and lighting conditions deteriorate.

BEHAVIOR WHEN TOWING A TRAILER

When towing a trailer, you will have decreased acceleration, increased stopping distance, and increased turning radius (which means you must make wider turns to keep from hitting curbs, vehicles, and anything else that is on the inside corner). Furthermore the trailer will change the handling characteristics of your towing vehicle, making it more sensitive to steering inputs and more likely to be pushed around in windy conditions or when being passed by large vehicles. In addition, you will need a longer distance to pass, due to slower acceleration and increased length. With these caveats in mind:

- Be alert for slippery conditions. You are more likely to be affected by slippery road surfaces when driving a tow vehicle with a trailer, than driving a tow vehicle without a trailer.
- Anticipate the trailer "swaying." Swaying can be caused by excessive steering, wind gusts, roadway edges, or by the trailer reaction to the pressure wave created by passing trucks and busses.
- When encountering trailer sway take your foot off the gas, and steer as little as possible in order to stay on the road. Use small "trim-like" steering adjustments. Do not attempt to steer out of the sway; you'll only make it worse. Also do not apply the tow vehicle brakes to correct trailer swaying. On the other hand, application of the trailer brakes alone will tend to straighten out the combination, especially when going downhill.

- Check rearview mirrors frequently to observe the trailer and traffic.
- Use lower gear when driving down steep or long grades. Use the engine and transmission as a brake. Do not ride the brakes, as they can overheat and become ineffective.
- Be aware of your trailer height, especially when approaching bridges, roofed areas and around trees.

TRAILER NOT PROPERLY COUPLED TO THE HITCH

It is critical that the trailer be securely coupled to the hitch ball, and that the safety chains and emergency break-away brake cable are correctly attached. Uncoupling may result in death or serious injury to you and to others.

^WARNING

Improper rigging of the safety chains can result in loss of control of the trailer and tow vehicle, leading to death or serious injury, if the trailer uncouples from the tow vehicle.

- Fasten chains to frame of tow vehicle. Do not fasten chains to any part of the hitch unless the hitch has holes or loops specifically for that purpose.
- Cross chains underneath hitch and coupler with enough slack to permit turning and to hold tongue up, if the trailer comes loose.

Proper selection and condition of the coupler and hitch are essential to safely towing your trailer. A loss of coupling may result in death or serious injury.

- Be sure the maximum load rating of the hitch on the tow vehicle is equal to or greater than the maximum load rating of the coupler on the trailer.
 - Be sure the hitch ball size matches the coupler size
 - Observe the hitch for wear, corrosion and cracks before coupling. Replace worn, corroded or cracked hitch components before coupling the trailer to the tow vehicle.
 - Be sure the hitch components are tight before coupling the trailer to the tow vehicle. An improperly coupled trailer can result in death or serious injury.
- Do not move the trailer until:
- The coupler is secured and locked to hitch ball;
 - The safety chains are secured to the tow vehicle; and
 - The trailer jack(s) are fully retracted. Do not tow the trailer on the road until:
 - Tires and wheels are checked;
 - The trailer brakes are checked;
 - The breakaway switch is connected to the tow vehicle;
 - The load is secured to the trailer; and
 - The trailer lights are connected and checked.

PROPER USE OF SAFETY CHAINS

If your trailer comes loose from the hitch for any reason, we have provided safety chains so that control of the trailer can still be maintained.

PROPER CONNECTION OF BREAKAWAY BRAKE

If equipped with brakes your trailer will be equipped with a breakaway brake system that can apply the brakes on your trailer if your trailer comes loose from the hitch ball for any reason. You will have a separate set of instructions for the breakaway brake if your trailer is so equipped. The breakaway brake system, including battery, must be in good condition and properly rigged to be effective.

^WARNING

Lug nuts are prone to loosen after initial installation, which can lead to death or serious injury. Check lug nuts for tightness on a new trailer or when wheel(s) have been remounted after the first 10, 25 and 50 miles of driving.

^WARNING

Improper lug nut torque can cause a wheel separating from the trailer, leading to death or serious injury. Be sure lug nuts are tight before each tow.

IMPROPER LOADING

The total weight of the load you put in or on the trailer, plus the empty weight of the trailer itself, must not exceed the trailer's Gross Vehicle Weight

Rating (GVWR). If you do not know the empty weight of the trailer plus the cargo weight, you must weigh the loaded trailer at a commercial scale. In addition, you must distribute the load in the trailer such that the load on any axle does not

exceed the Gross Axle Weight Rating (GAWR). If your trailer is equipped with a Tire & Loading Information Placard, mounted next to the Certification / VIN label, the cargo capacity weight stated on that placard is only a close estimate.

The GVWR and GAWR's are listed on the Certification / VIN label mounted on the front left side of the trailer.

^WARNINGg

An overloaded trailer can result in loss of control of the trailer, leading to death or serious injury.

Do not exceed the trailer Gross Vehicle Weight Rating (GVWR) or an axle Gross

Axle Weight Rating (GAWR). Do not load a trailer so that the weight on any tire exceeds its rating.

1.2.10. UNSAFE LOAD DISTRIBUTION

Improper front / rear load distribution can lead to poor trailer sway stability or poor tow vehicle handling. Poor trailer sway stability results from tongue weights that are too low, and poor tow vehicle stability results from tongue weights that are too high..

After loading, be sure to check that none of the axles are overloaded.

Tongue Weight as a Percentage of Loaded Trailer Weight:

Ball Hitch (or Bumper Hitch) 10–15% This is a general guideline and should be tailored to the vehicle towing the trailer.

Uneven left / right load distribution can cause tire, wheel, axle or structural failure. Be sure your trailer is evenly loaded left / right. Towing stability also depends on keeping the center of gravity as low as possible.

^WARNING

Improper tongue weight (load distribution) can result in loss of control of the trailer, leading to death or serious injury.

Make certain that tongue weight is within the allowable range.

Be sure to:

- Distribute the load front-to-rear to provide proper tongue weight.
- Distribute the load evenly, right and left.
- Keep the center of gravity low.

SHIFTING CARGO

If the door latch is equipped with a lock that will keep the door latch from opening.

^WARNING

If the side doors open, your cargo may be ejected onto the road, resulting in death or serious injury to other drivers.

Always secure the door latch after closing.

. INAPPROPRIATE CARGO

Your trailer is designed for specific cargo and should only carry the cargo it is designed for.

^WARNING

Do not allow people to ride on top of the trailer,

The transport of people puts their lives at risk and may be illegal.

^WARNING

Do not transport flammable, explosive, poisonous or other dangerous materials in your trailer.

Exceptions:

- Fuel in the tanks of pump or generator that are being towed.
- Fuel stored in the tank of an on-board Generator or pump.

INOPERABLE BRAKES, LIGHTS OR MIRRORS:

Be sure that the electric brakes and all of the lights on your trailer are functioning properly before towing your trailer. Electric brakes and lights on a trailer are controlled via a connection to the tow vehicle, generally a multi-pin electrical connector.

Check the trailer tail lights by turning on your tow vehicle headlights. Check the trailer brake lights by having someone step on the tow vehicle brake pedal while you look at trailer lights. Do the same thing to check the turn signal lights.

If your trailer has electric brakes, your tow vehicle will have an electric brake controller that sends power to the trailer brakes. Before towing the trailer on the road, you must operate the brake controller while trying to pull the trailer in order to confirm that the electric brakes operate.

While towing the trailer at less than 5 mph, manually operate the electric brake controller in the tow vehicle cab. You should feel the operation of the trailer brakes.

^WARNING

Improper electrical connection between the tow vehicle and the trailer will result in inoperable lights and electric brakes, and can lead to collision.

Before each tow:

- Check that the taillights, brake lights and turn signals work.
- Check that the electric brakes work by operating the brake controller inside the tow vehicle.

Standard mirrors usually do not provide adequate visibility for viewing traffic to the sides and rear of a towed trailer. You must provide mirrors that allow you to safely observe approaching traffic.

HAZARDS FROM MODIFYING YOUR TRAILER

Essential safety items can be damaged by altering your trailer. Even simply driving a nail or screw to hang something can damage an electrical circuit,

Before making any alteration to your trailer, contact your dealer and describe the alteration you are contemplating.

Alteration of the trailer structure or modification of mechanical, electrical, plumbing or other systems on your trailer must be performed only by qualified technicians who are familiar with the system as installed on your trailer

TRAILER TOWING GUIDE

Driving a vehicle with a trailer in tow is vastly different from driving the same vehicle without a trailer in tow. Acceleration, maneuverability and braking are all diminished with a trailer in tow. It takes longer to get up to speed; you need more room to turn and pass, and more distance to stop when towing a trailer. You will need to spend time adjusting to the different feel and maneuverability of the tow vehicle with a loaded trailer. Because of the significant differences in all aspects of maneuverability when towing a trailer, the hazards and risks of injury are also much greater than when driving without a trailer. You are responsible for keeping your vehicle and trailer in control, and for all the damage that is caused if you lose control of your vehicle and trailer.

As you did when learning to drive an automobile, find an open area with little or no traffic for your first practice tailoring. Of course, before you start towing the trailer, you must follow all of the instructions for inspection, testing, loading and coupling. Also, before you start towing, adjust the mirrors so you can see the trailer as well as the area to the rear of it.

Drive slowly at first, 5 mph or so, and turn the wheel to get the feel of how the tow vehicle and trailer combination responds. Next, make some right and left hand turns. Watch in your side mirrors to see how the trailer follows the tow vehicle. Turning with a trailer attached requires more room.

Stop the rig a few times from speeds no greater than 10 mph. If your trailer is equipped with brakes, try using different combinations of trailer/electric brake and tow vehicle brake. Note the effect that the trailer brakes have when they are the only brakes used. When properly adjusted,

The trailer brakes will come on just before the tow vehicle brakes.

It will take practice to learn how to back up a tow vehicle with a trailer attached. Take it slow.

Before backing up, get out of the tow vehicle and look behind the trailer to make sure that there are no obstacles. Some drivers place their hands at the bottom of the steering wheel, and while the tow vehicle is in reverse, “think” of the hands as being on the top of the wheel. When the hands move to the right (counter-clockwise, as you would do to turn the tow vehicle to the left when moving forward), the rear of the trailer moves to the right.

Conversely, rotating the steering wheel clockwise with your hands at the bottom of the wheel will move the rear of the trailer to the left, while backing up. If you are towing a bumper hitch rig, be careful not to allow the trailer to turn too much, because it will hit the rear of the tow vehicle. To straighten the rig, either pull forward, or turn the steering wheel in the opposite direction

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect that could cause a crash or could cause injury or death, you should immediately contact Hillcrest Manufacturing, LLC.

SAFE TRAILER TOWING GUIDELINES

- Before towing, check coupling, safety chain, safety brake, tires, wheels and lights.
- Check the lug nuts or bolts for tightness.
- Check coupler tightness after towing 50 miles.
- Adjust the brake controller to engage the trailer brakes before the tow vehicle brakes. Follow the instructions given with the brake controller manufacturer’s literature.
- Use your mirrors to verify that you have room to change lanes or pull into traffic.
- Use your turn signals well in advance.
- Allow plenty of stopping space for your trailer and tow vehicle.
- Do not drive so fast that the trailer begins to sway due to speed. Generally never drive faster than 60 m.p.h.
- Allow plenty of room for passing. A rule of thumb is that the passing distance with a trailer is 4 times the passing distance without a trailer.

- Shift your automatic transmission into a lower gear for city driving.
- Use lower gears for climbing and descending grades.
- Do not ride the brakes while descending grades, they may get so hot that they stop working. Then you will potentially have a runaway tow vehicle and trailer.
- To conserve fuel, don't use full throttle to climb a hill. Instead, build speed on the approach.
- Slow down for bumps in the road. Take your foot off the brake when crossing the bump.
- Do not brake while in a curve unless absolutely necessary. Instead, slow down before you enter the curve.
- Do not apply the tow vehicle brakes to correct extreme trailer swaying. Instead, lightly apply the trailer brakes with the hand controller.
- Make regular stops, about once each hour.

Confirm that the coupler is secure to the hitch and is locked,

Electrical connectors are made,

There is appropriate slack in the safety chains,

There is appropriate slack in the breakaway switch pull pin cable, The tires are not visibly low on pressure, and The cargo is secure and in good condition

TIRE SAFETY INFORMATION

This portion of the User's Manual contains tire safety information as required by 49 CFR 575.6.;

- Tire labeling, including a description and explanation of each marking on the tires, and information about the DOT Tire Identification Number (TIN).
- Recommended tire inflation pressure, including a description and explanation of:
 - A. Cold inflation pressure.
 - B. Vehicle Placard and location on the vehicle.
 - C. Adverse safety consequences of under inflation (including tire failure).
 - D. Measuring and adjusting air pressure for proper inflation.
- Tire Care, including maintenance and safety practices.
- Vehicle load limits, including a description and explanation of the following items:
 - A. Locating and understanding the load limit information, total load capacity, and cargo capacity.

STEPS FOR DETERMINING CORRECT LOAD LIMIT – TRAILER

TRAILERS 10,000 POUNDS GVWR OR LESS

1. Locate the statement, “The weight of cargo should never exceed XXX kg or XXX lbs.,” on your vehicle’s placard..
2. This figure equals the available amount of cargo and accessory load capacity.
3. Determine the weight of cargo being loaded on the vehicle. That weight may not safely exceed the available cargo load capacity.

STEPS FOR DETERMINING CORRECT LOAD LIMIT – TOW VEHICLE

1. Locate the statement, "The combined weight of occupants and cargo should never exceed XXX lbs.," on your vehicle's placard.
2. Determine the combined weight of the driver and passengers who will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kilograms or XXX pounds.
4. The resulting figure equals the available amount of cargo and luggage capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage capacity is 650 lbs. $(1400 - 750 (5 \times 150) = 650 \text{ lbs.})$.
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage capacity calculated in Step # 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult the tow vehicle's manual to determine how this weight transfer reduces the available cargo and luggage capacity of your vehicle.

2.4. TIRE SAFETY - EVERYTHING RIDES ON IT

The National Traffic Safety Administration

(NHTSA) has published a brochure (DOT HS 809 361) that discusses all aspects of Tire Safety, as required by CFR 575.6. This brochure is reproduced in part below. It can be obtained and downloaded from NHTSA, free of charge

Vehicle Identification Number (VIN)

Refer to the identification decal on your unit. Important information, such as the unit Vehicle Identification Number (V.I.N.), gross vehicle weight, tire size and tire pressure for your trailer will be found on this decal. Record the information from this decal in the manual, so it is available if the decal is lost or damaged. When ordering parts or requesting technical service information, you may be asked to specify this information.

CENTRAL PLAINS INDUSTRIES, LLC cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product are, therefore, not all-inclusive. If a method of operation not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the fuel trailer will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time.

General Operating Safety

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! This diesel fuel trailer was designed for a specific application; DO NOT modify or use this fuel trailer for any application other than which it was designed. Fuel trailers operated improperly or by untrained personnel can be dangerous! Read the manuals and familiarize yourself with the location and proper use of all meters, pumps, and controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate or set up the diesel fuel trailer. Do not transport or pump flammable or explosive fluids such as gasoline or kerosene. Do not use in explosive atmospheres. The fuel trailer's pump should be used only with liquids that are compatible with the pump. Failure to follow this warning can result in personal injury and/or property damage and will void the product warranty. Replace any missing or hard-to-read decals and use care when washing or cleaning the fuel trailer. Decal placement and part numbers can be found in the parts manual. Keep open flames away from the fuel trailer and do not smoke around the fuel trailer.

SPECIFICATIONS:

Fuel Hose and Nozzle

Hose length (without reel)20'
Hose length (with optional reel) . . .35' or 50'
Optional Hose Reel Auto Retracting
Fuel Nozzle* Auto Trip (shutoff)
*Lockable on models without tool box.

Digital Fuel Pump Meter

Inline Meter with Fuel Nozzle
TTL1 displays fuel pumped during refueling

TTL2 Displays total fuel pumped since last reset

Torsion Axles

Lubrication . . . EZ Lube Hubs

Load rating . . 3,500 lbs Per Axle (500)

Load rating . . 6,000 lbs Per Axle (750)

Load rating . . 7,000 lbs Per Axle (1000)

BrakesElectric

Emergency braking . . . Breakaway System

Wheels and Rims.....Six-Bolt, Steel Wheels (Standard)

Engine Oil Change

Initial oil change20 hours

Scheduled oil changeevery 100 hours

Other Specifications

. One Fuel Level Sight Glass

.1/2" drain plug

. 4" Vented Fill Cap & Tank Air Relief Vent

. Heavy-Duty Tow Chains and Hooks

.Adjustable Five-Position Vertical Hitch

.2-5/16" Ball Hitch

.Four Safety Placards

Specifications are subject to change without notice.

Installing 1993 Diesel Fuel Placards

Before transporting fuel, make sure Diesel Fuel Placards are properly displayed on all four sides of the trailer (Federal Regulation # 49 CFR 172.516). It is the responsibility of the end user (owner) to properly install and display all required placards.

All diesel fuel trailers are shipped with 1993 Diesel Fuel Placards, however they are not installed at the factory. Federal regulation #49 CFR 172.516 requires that Diesel Fuel Placards be installed. It is the responsibility of the end user (owner) to properly install and display all required placards.

Before transporting fuel for the first time make sure the decals are installed.

The placement (location) of the placards is the same on all models.

NOTE: Do not install the placards prior to filling the fuel tank with diesel fuel. A new trailer, never filled with fuel, does not require the placards in order to be transported.

Front — Center the decal and place it under the "Refueler" decal.

Rear — Center the decal and place it on top of the reflective decal.

Right-side — Locate the decal 1 inch from the rear of the trailer and 13 inches down from the top of the trailer.

Left-side — Locate the decal 1 inch from the rear of the trailer and 13 inches down from the top of the trailer.

Fire Extinguisher

It is recommended that the end user install a suitable fire extinguisher on the diesel fuel trailer. The extinguisher bracket should be mounted in an accessible location, such as the front step plate on trailers without optional tool boxes, or if equipped with the optional tool box, on the inside of the tool box door. Drill holes and use rust resistant bolts, lock washers, and nuts (do not use screws) to install the mounting bracket. DO NOT install the bracket and extinguisher on the diesel fuel trailer tank. Follow the manufacturer's instructions to check and maintain the fire extinguisher charge on a regular basis.

OPERATION

Make sure the fuel valve on the bottom of the tank (under the front of the trailer) is in the OFF position (vertical to the hose).

Remove the trailer's fill cap and fill the trailer with diesel fuel.

NOTE: To fill the trailer to maximum capacity, make sure the trailer is on level ground before filling with fuel.

Replace and securely tighten the trailer fuel cap.

Install the 1943 Diesel Fuel Placards if the trailer will be towed with Diesel fuel.

Position the fuel trailer next to the equipment being filled.

Start the pump and let it idle in 1/3 throttle position to allow proper engine warm up for a couple minutes and then open to full throttle position.

For a 12 Volt system with an integrated battery, simply turn the pump's ON/OFF handle to the ON position.

Remove the fuel nozzle from its holder. Pull out enough hose to easily reach the fill opening on the equipment.

IMPORTANT NOTICE

To avoid fuel contamination and possible nozzle malfunction, keep the fuel nozzle clean. Always store the nozzle in the nozzle holder when not in use.

NOTE: When the pump is running, the fuel hose is pressurized and squeezing the handle on the fuel nozzle will begin pumping diesel fuel.

If using the optional electronic fuel meter, press the DISPLAY button on the face of the meter.

NOTE: The fuel meter will turn on automatically when it senses fuel flow. It can be manually turned on by pressing the DISPLAY button ("DISPLAY").

The meter will show the total from its last use. The meter turns off automatically if not used for approximately one minute.

IMPORTANT NOTICE

To avoid over filling the receiving tank, always keep the fuel nozzle clean and do not leave the fuel nozzle unattended during fueling. Be prepared to manually shut off fuel flow at the nozzle, if necessary.

Place the fuel nozzle into the receiving tank and squeeze the handle to start fuel flow. When the tank is full, the nozzle will automatically shut off the flow. If an electronic fuel meter is attached to the hose, a specific amount of fuel can be added.

NOTE: When filling equipment from the fuel trailer never allow the pump to run dry. If all the fuel in the trailer is used, the priming chamber of the pump will require fuel to be added before using the pump again.

When fueling is complete, rewind the fuel hose on the fuel reel or on the fuel hook.

Place the nozzle back into the nozzle holder.

Turn the pump OFF.

If equipped with optional tool box, close and latch the doors.

Make sure the fuel valve on the bottom of the tank (under the front of the trailer) is in the OFF position (vertical to the hose).

Towing Speed

Under most circumstances the fuel trailer is capable of being towed at the posted legal speed limit (not to exceed 70 mph). However, the following towing speeds are recommended:

With the tank empty, improved road: 55 mph

With the tank full, improved road: 45 mph

With the tank 1/2 full, improved road: 45 mph

Any towing on unimproved roads: 20 mph or less.

Diesel Fuel Filter Maintenance

IMPORTANT NOTICE

If equipped, shut off fuel valve on the bottom of the tank, and release line pressure prior to making any repairs or adjustments to the reel. To prevent fuel spills, units without optional tool box must be empty before replacing the diesel fuel filter.

Replace the inline diesel fuel filters based on gallons of diesel fuel pumped.

- Replace the factory filter after the first 2,000 Gallons are pumped or at six months, whichever comes first.

- After the first filter change, then replace the fuel filters after every 10,000 Gallons are pumped or every six months, whichever comes first.

1. Shut off fuel valve on the bottom of the tank (if equipped), open the nozzle to release line pressure, and drain the delivery hose into a suitable container.

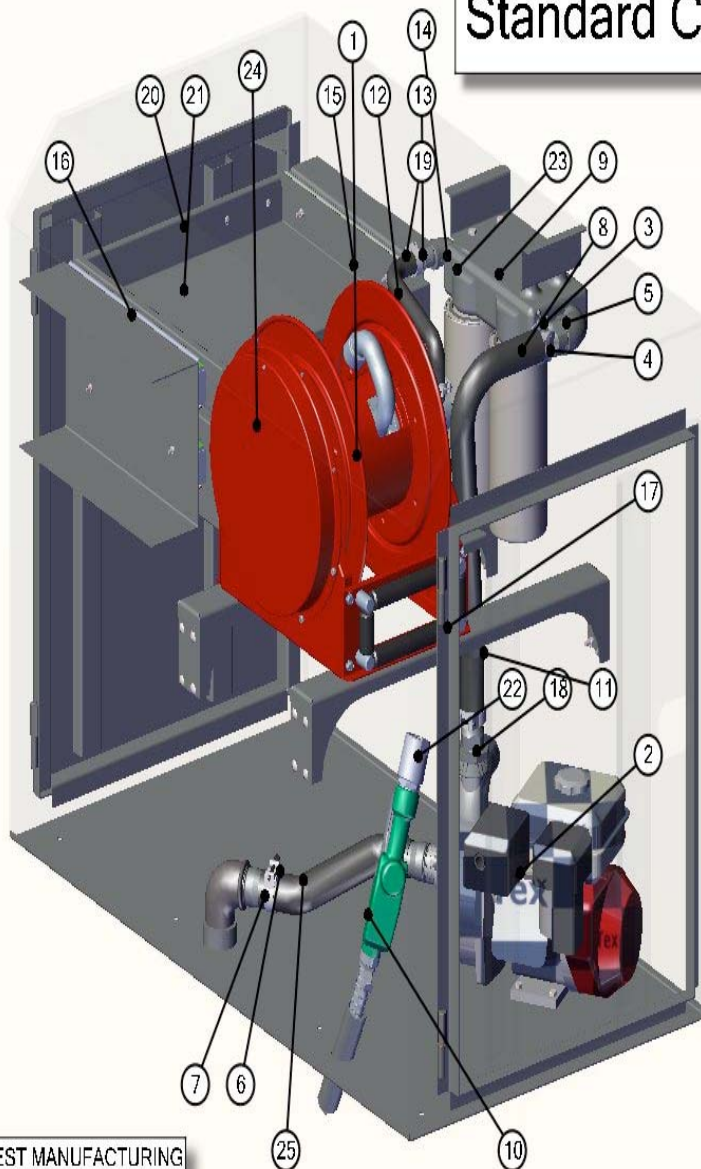
IMPORTANT NOTICE

If the trailer is not equipped with a shut off valve, make sure the diesel fuel trailer is empty before changing the diesel fuel filter.

2. If not equipped with a shut off valve, make sure the diesel fuel trailer is empty, open the nozzle to release line pressure and drain the delivery hose into a suitable container.
3. Place a suitable drain pan under the fuel filter to catch any fuel.
4. Use a filter wrench to loosen the fuel filter in a counterclockwise direction. Remove the old fuel filter and drain it into the catch pan.
5. Lubricate the new filter gasket with clean diesel fuel and install the filter (turn clockwise) hand tight.
6. Dispose of the old fuel filter according to all local, state, and Federal mandates and regulations.
7. The first time fuel is dispensed, check for leaks at the fuel filter.

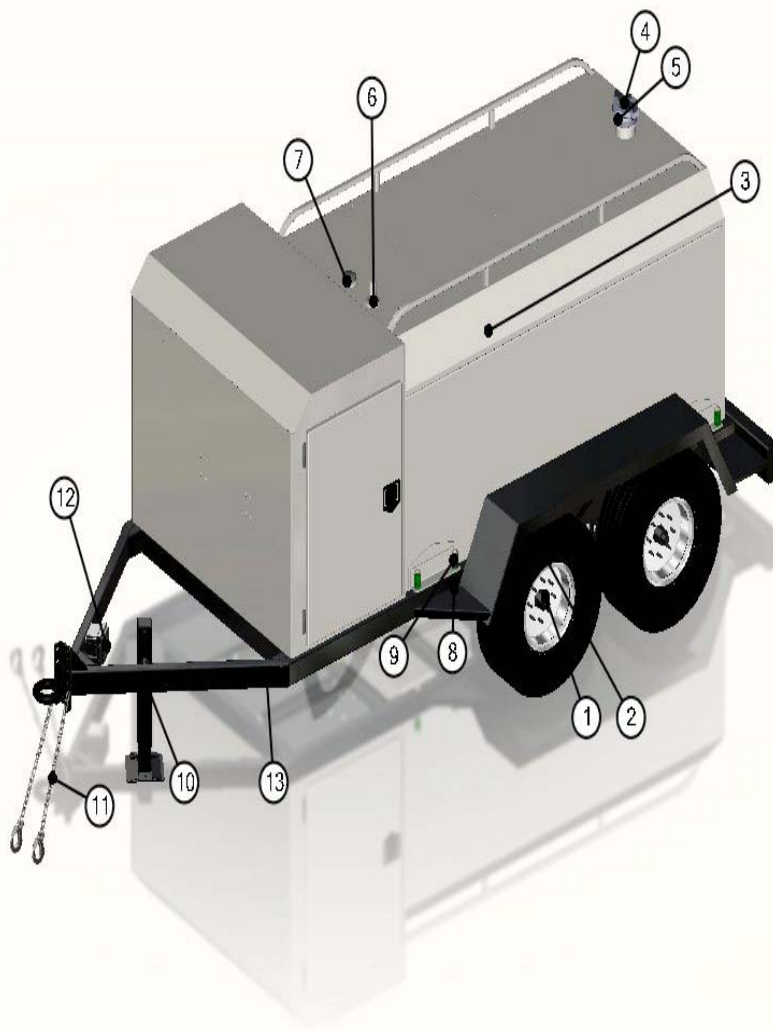
PARTS MANUAL

Standard Cabin



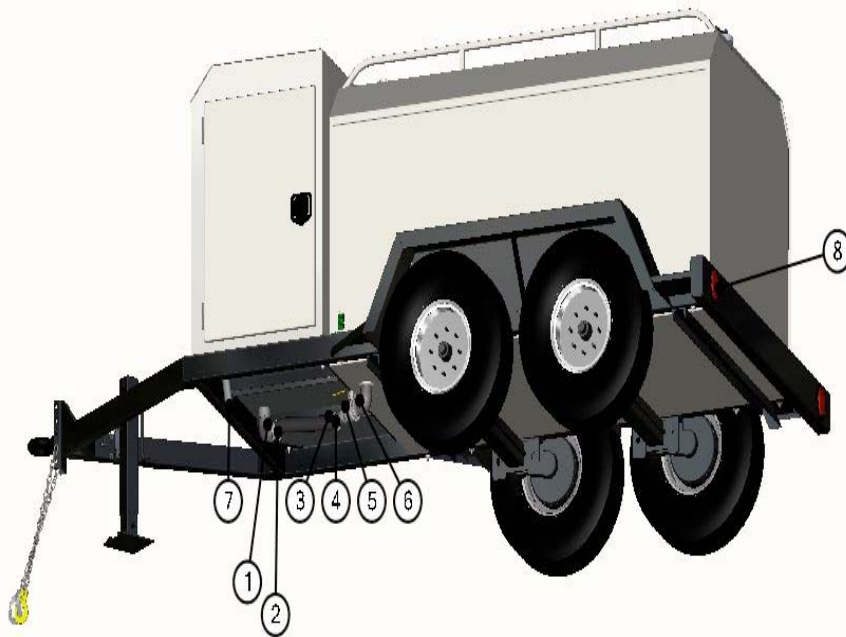
BOM ID	Part Number	Description	Qty
1	P22-1007	35' Hose Reel	1
2	P22-1006	Gas Pump(SDIV 4223-V5)	1
3	P22-1025	1-1/2" Hose Clamp	2
4	P22-1024	1-1/2" Barb Fitting	2
5	P22-1028	1-1/2" Street Elbow	1
6	P22-1026	2" Hose Clamp	2
7	P22-1023	2" Barb Fitting	2
8	P22-1012	Donaldson Filter P171276	2
9	P22-1011	Duel Head Filter Mount	1
10	P22-1010	Green Nozzle	1
11	P22-1035	1-1/2" x 24" Hose	1
12	P22-1032	1" x 24" Hose	1
13	P22-1031	1" Barb Fitting	2
14	P22-1030	1" Street Elbow	1
15	P22-1017	Lockable Drawer Slide 18"	2
16	P22-1018	Nonlocking Drawer Slide 18"	2
17	TT043	Reel Mount Bracket	2
18	P22-1034	2" x 1-1/2" Adapter	1
19	P22-1033	1" Hose Clamp	2
20	TT027	3" Drawer	1
21	TT019	8" Drawer	1
22	P22-1009	1" Swivel	1
23	P22-1029	1-1/2" x 1" Adapter	1
24	TT1412	Thandle	2
25	P22-1013	2" x 24" Hose	1

HILLCREST MANUFACTURING
42989 US HWY 212
CLARK, SD 57225
PHONE: 605 532 3829
FAX: 605 532 5475



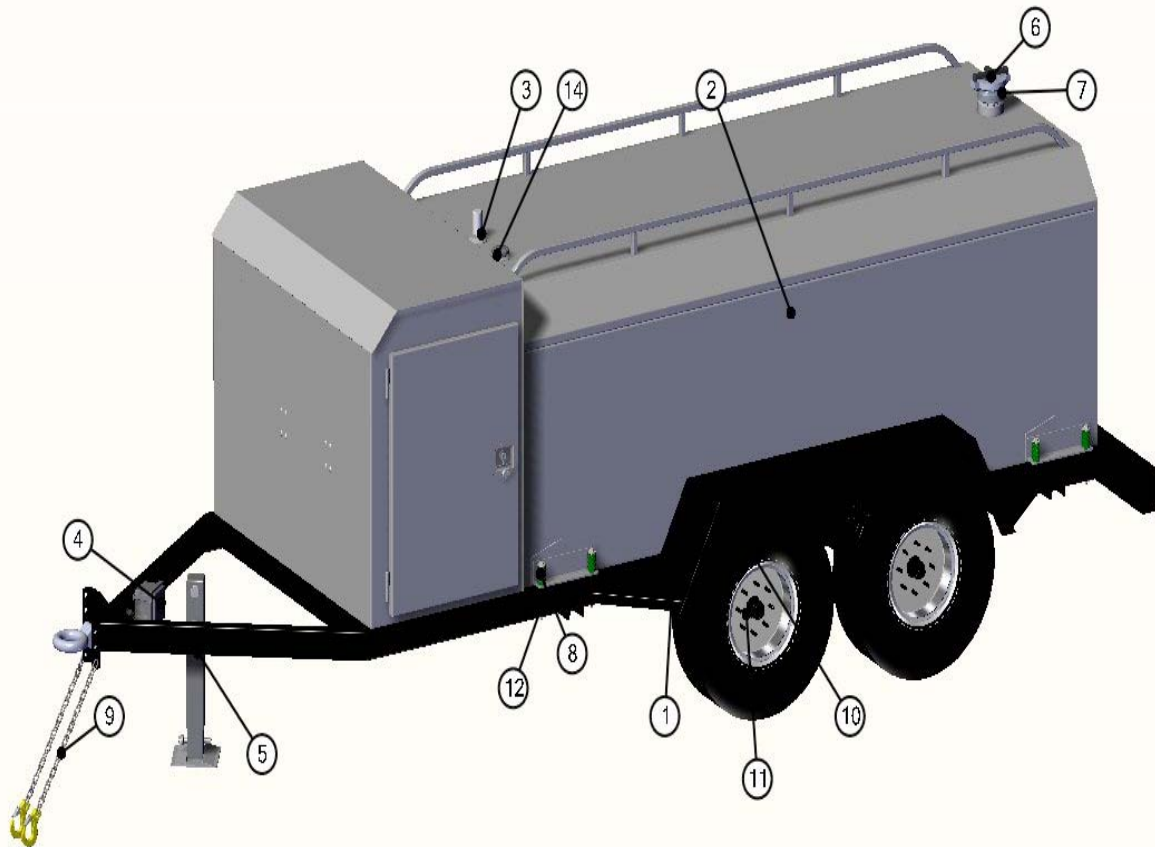
BOM ID	Part Number	Description	Qty
1	TT1437	15x6 SH ON 4.5 Rim	4
2	TT1436	ST225/75R15 10PLY Tire	4
3	TT1508	750 Gallon Tank	1
4	14-001534	4" Fuel Fill Cap	1
5	TT052	4" Cap Mount	1
6	P22-1001	Tank Gage	1
7	P22-1019	Tank Cap Breather	1
8	B1109	7-1/2" x 1/2" Bolt	8
9	P22-1002	2-1/2" Spring	8
10	TM-14-0027	1000lb Bulldog Jack	1
11	14-001508	Safety Chain	2
12	P22-1040	Brake Away Kit	1
13	TT1505	Standard 750 Frame	1

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BOM ID	Part Number	Description	Qty.
1	P22-1014	2" Street Elbow	2
2	P22-1023	2" Barb Fitting	2
3	(22-1013	2" x 24" Hose	1
4	P22-1026	2-1/2" Hose Clamp	2
5	P22-1038	2" Shut Off	1
6	P22-1027	2" Nipple	1
7	P22-1037	1/2" NPT Plug	1
8	14-001533	4" Round Red Light	2

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BOM ID	Part Number	Name	Qty
1	TT151003	Standard 990 Gallon Frame	1
2	TT151000	990 Gallon Tank	1
3	P22-1001	Tank Gage	1
4	P22-1040	Brake Away Kit	1
5	TM-14-0027	1000 Lb Bulldog Jack	1

BOM ID	Part Number	Name	Qty
6	14-001534	4" Fuel Fill Cap	1
7	TT052	4" Cap Mount	1
8	P22-1002	2-1/2" Spring	8
9	14-001508	Safety Chain	2
10	TT1436	ST225/75R15 10PLY Tire	4

BOM ID	Part Number	Name	Qty
11	TT1437	15x6 5H ON 4.5 Rim	4
12	B1109	7-1/2" x 1/2" Bolt	8
14	P22-1019	Tank Cap Breather	1

OPTIONAL DL PACKAGE



Options include:

- 9hp air compressor

- 13hp air compressor/generator combination, 15.7 CFM

- Generator upgrade to 110V and 220V

- Electric start

- 3/8 X 50' or 100' air hose reel

- Air hose/electric reel combination

- 100 gallon DEF tank

Refer to the OEM owner manuals for all information regarding the components not manufactured by CENTRAL PLAINS INDUSTRIES.LLC

FOLLOWING IS A QUICK REFERENCE ONLY TO SAFETY AND OPERATION OF OPTIONAL DL MODEL.

THE OEM OWNERS MANUAL SHOULD BE REFERRED TO FOR ALL INFORMATION REGARDING COMPONENTS NOT MANUFACTURED BY CENTRAL PLAINS INDUSTRIES, LLC

Safety

RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word-DANGER, WARNING or CAUTION-is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



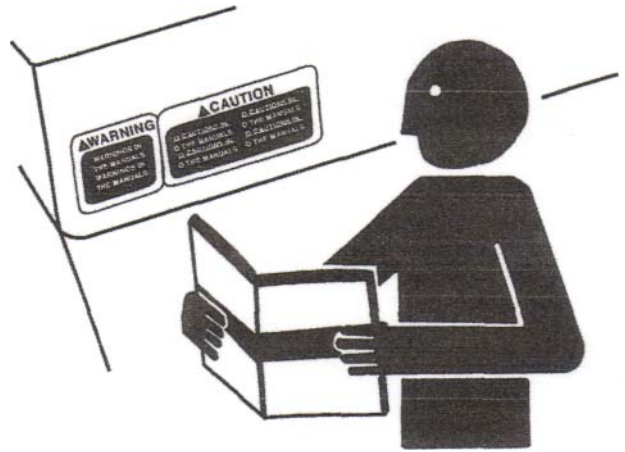
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and safety signs on your machine. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.



DANGER

WARNING
CAUTION

CARBON MONOXIDE - POISONOUS GAS

Use unit outdoors, away from open windows, vents, or doors.

Unit exhaust contains carbon monoxide - a poisonous gas that can kill you. You CAN NOT smell or see this gas.

Never use the unit in enclosed or partially-enclosed spaces. The unit can produce high levels of carbon monoxide very quickly. When you use this unit, remember that you cannot smell or see carbon monoxide. Even if you can't smell exhaust fumes, you may still be exposed to carbon monoxide.

If you start to feel sick, dizzy, or weak while using the unit, get to fresh air **RIGHTAWAY**. **DO NOT DELAY**. The carbon monoxide from the unit can rapidly lead to full incapacitation and death.

If you experience serious symptoms, get medical attention immediately. Inform medical staff that carbon monoxide poisoning is suspected. If you experienced symptoms while indoors, have someone call the fire department to determine when it is safe to re-enter the building.

NEVER operate the unit in an explosive atmosphere, near combustible materials or where ventilation is not sufficient to carry away exhaust fumes. **Exhaust fumes can cause serious injury or death.**

NEVER use the unit indoors, including in homes, garages, basements, crawl spaces, and other enclosed or partially-enclosed areas, even with ventilation. Opening doors and windows or using fans will not prevent carbon monoxide build-up in the home.

Follow the instructions that come with your unit. Locate the unit outdoors and away from doors, windows, and vents that could allow the carbon monoxide gas to come indoors.

ONLY run unit outdoors and away from air intakes.

NEVER run unit inside homes, garages, sheds, or other semi-enclosed spaces. These spaces can trap poisonous gases **EVEN IF** you run a fan or open doors and windows.

If you start to feel sick, dizzy, or weak while using the unit, shut it off and get fresh air **RIGHT AWAY**. See a doctor. You may have carbon monoxide poisoning.

Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up in your home, according to the manufacturer's installation instructions. The carbon monoxide alarms should be certified to the requirements of the latest safety standards for carbon monoxide alarms. (UL 2034, IAS 6-96, or **CSA 6.19.01**).

Test your carbon monoxide alarm frequently and replace dead batteries.



SAFETY WARNING WHEN REFUELING

Injury or death may occur as a result of improper fueling. Do not smoke while filling engine fuel tank.

Always refuel slowly to avoid the possibility of spilled fuel which may cause a risk of fire.

Gasoline is extremely flammable and its vapors can explode if ignited.

Observe all safety regulations for the safe handling of fuel. Handle fuel in safety containers. If the container does not have a spout, use a funnel.

Do not overfill the fuel tank, leave room for the fuel to expand.

Fill the tank only on an area of bare ground. While fueling the tank, keep heat, sparks and open flame away. Carefully clean up any spilled fuel before starting engine.

Always fill fuel tank in an area with plenty of ventilation to avoid inhaling dangerous fumes.

NEVER store fuel for your unit in the home. Gasoline, propane, kerosene, and other flammable liquids should be stored outside of living areas in properly-labeled, non-glass safety containers. Do not store them near a fuel-burning appliance, such as a natural gas water heater in a garage. If the fuel is spilled or the container is not sealed properly, invisible vapors from the fuel can travel along the ground and can be ignited by the appliance's pilot light or by arcs from electric switches in the appliance.



ELECTRICAL HAZARDS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

DANGER - IMPROPER CONNECTION OF THE EQUIPMENT-GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTROCUTION. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICE PERSON IF YOU ARE IN DOUBT AS TO WHETHER THE UNIT IS PROPERLY GROUNDED.

This unit is equipped with a grounding terminal for your protection. Always complete the ground path from the unit to an external ground source as instructed in the section labeled "Grounding Instructions" in the Preparation section of this manual.

The unit is a potential source of electrical shock if not kept dry. Keep the unit dry and do not use in rain or wet conditions. To protect from moisture, operate it on a dry surface under an open, canopy-like structure. Dry your hands if wet before touching the unit.

Plug appliances directly into the unit. Or, use a heavy duty, outdoor-rated extension cord that is rated (in watts or amps) at least equal to the sum of the connected appliance loads. Check that the entire cord is free of cuts or tears and that the plug has all three prongs, especially a grounding pin.

NEVER try to power the house wiring by plugging the unit into a wall outlet, a practice known as "back feeding". This is an extremely dangerous practice that presents an electrocution risk to utility workers and neighbors served by the same utility transformer. It also bypasses some of the built-in household circuit protection devices.

If you must connect the unit to the house wiring to power appliances, have a qualified electrician install the appropriate equipment in accordance with local electrical codes. Or, check with your utility company to see if it can install an appropriate power transfer switch.

For power outages, permanently installed stationary units are better suited for providing backup power to the home. Even a properly connected portable unit can become overloaded. This may result in overheating or stressing the unit components, possibly leading to a unit failure.

RISK OF FIRE OR EXPLOSION

Serious injury or death may occur from normal sparks in the engine ignition system or engine exhaust/muffler. Always operate the unit in a well ventilated area free of flammable vapors, combustible dust, gases or other combustible materials.

DO NOT SMOKE if spraying flammable material. Locate the unit at least 20 feet away from the spray area. (An additional hose may be required.)

Never fill the engine fuel tank while the engine is running or hot. Allow the engine to cool two minutes before refueling. Do not refuel indoors or in a poorly ventilated area.

Do not operate the unit if gasoline is spilled. Wipe the unit clean and move it away from the spill. Avoid creating any ignition until the gasoline has evaporated.

Do not store the unit near an open flame or any equipment such as a stove, furnace, water heater, etc. which utilizes a pilot light or sparking device.

A spark arrester must be added to the muffler of this engine if it is to be used on any forest covered, brush covered or grass covered unimproved land. The arrester must be maintained in effective working order by the operator.

Serious injury may occur if any of the unit's ventilation openings are restricted, causing the unit to overheat and start a fire. Never place objects against or on top of the unit. Operate the unit at least 12 inches away from any wall or obstruction that would restrict proper ventilation.





RISK OF BURSTING

Serious injury or death may occur from an air tank explosion if air tanks are not properly maintained. Drain air tank daily or after each use to prevent moisture buildup in the air tank.

If air tank develops a leak, replace the air tank immediately. Never repair, weld or make modifications to the air tank or its attachments. Use only genuine manufacturer repair parts for your unit. NEVER make adjustments to the factory set pressures.

Serious injury may occur from the unit malfunction or exploding accessories if incorrect system components, attachments or accessories are used. Never exceed manufacturers maximum allowable pressure rating of attachments.

Because of extreme heat, do not use plastic pipe or lead tin soldered joints for a discharge line.

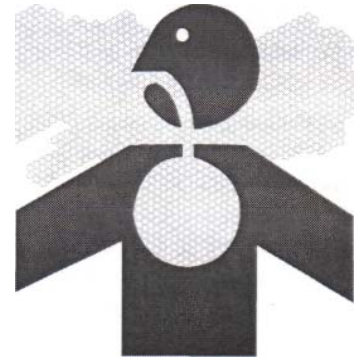
Never use the unit to inflate small, low pressure objects such as toys.

RISK OF BREATHING

Serious injury or death could occur from inhaling compressed air. The air stream may contain carbon monoxide, toxic vapors or solid particles. Never inhale air from the unit either directly or from a breathing device connected to the unit.

Serious injury or death may occur from inhaling engine exhaust. This unit was designed for outdoor use. Never operate this unit in an enclosed area. Always make certain there is adequate ventilation (fresh outside air) for breathing and combustion. This will prevent the buildup of dangerous carbon monoxide gases. Beware of poorly ventilated areas, or areas with inadequate exhaust fans.

Sprayed materials such as paint, solvents, paint remover, insecticides, weed killers, etc. contain harmful vapors and poisons. Operate the unit only in a well ventilated area. Follow all safety instructions provided with the materials you are spraying. Use of a respirator may be required when working with some material.



RISK OF BURNS

Serious injury could occur from touching exposed metal parts. These areas can remain hot for some time after the unit is shutdown. Never allow any part of your body or other materials to make contact with any exposed metal parts on the unit.

Never allow any part of your body to contact the engine muffler, compressor head or adjacent areas.



RISK OF FLYING OBJECTS

Soft tissue damage can occur from the compressed air stream. Always wear safety glasses to shield the eyes from flying debris.

Never point the air stream at any part of your body, anyone else or animals.

Never leave pressurized air in the unit. Shut off the unit and relieve pressure when storing or attempting maintenance.

Serious injury can occur from loose debris being propelled at a high speed from the compressed air stream. Always maintain a safe distance from people and animals while operating the unit.

Do not move the unit while air tank is under pressure. Do not attempt to move the unit by pulling on the hose.



RISK FROM MOVING PARTS

Risk of bodily injury from moving parts: Before performing maintenance, always turn off the unit.

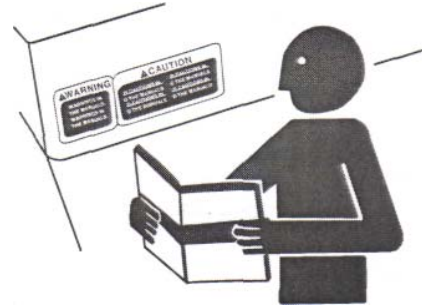
Bleed pressure from the air hose and disconnect spark plug wire to prevent engine from starting unexpectedly.

All repairs to the unit should be made by an Authorized Service person.

Do not operate without protective covers/guards. Always turn off the unit before removing any guard. Replace damaged covers/guards before using the unit.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of injury, read this operator's manual completely before using. When using this product, the following basic precautions should always be followed:



1. Risk from Negligence: Risk of injury from negligent use. Never allow children or adolescents to operate this unit! Stay alert-watch what you are doing. Do not operate the unit when fatigued or under the influence of alcohol or drugs. Know how to stop the unit. Be thoroughly familiar with controls.
2. Risk of Unit Damage: Risk of major repair. Do not operate the unit without an air filter. Do not operate the unit in a corrosive environment. Always operate the unit in a stable, secure position to prevent the unit from falling. Follow all maintenance instructions listed in this manual.
3. When starting the unit, using recoil starter grip, be sure that nothing is in a position to be hit by the operator's hand or arm. Be sure the switch on electric power tools is in the "OFF" position before plugging them into the unit.
4. Do not operate the unit or any electrical tool in any area where water or similar materials constitute an electrical hazard to the operator. Do not operate on wet surfaces, in rain or in snow.
5. Always be sure that the unit is on secure footing so that it cannot slide or shift around, endangering workers.
6. Avoid contacting the hot exhaust manifold, muffler or cylinder(s).
7. Keep clear of all rotating parts.
8. Unless the tool or appliance is double insulated, it must be grounded through a properly grounded receptacle. Tools and appliances which have 3 prong plugs must be plugged into extension cords and electrical receptacles with 3 holes. Before operating any electrical item, be sure it is in good repair.
9. Beware of using this equipment in confined spaces. Confined spaces, without sufficient fresh air ventilation, can contain dangerous gases. Running gasoline engines in such environments can lead to deadly explosions and/or asphyxiation.
10. Use extreme caution when lifting this unit. This unit is heavy so proper lifting techniques should be used.

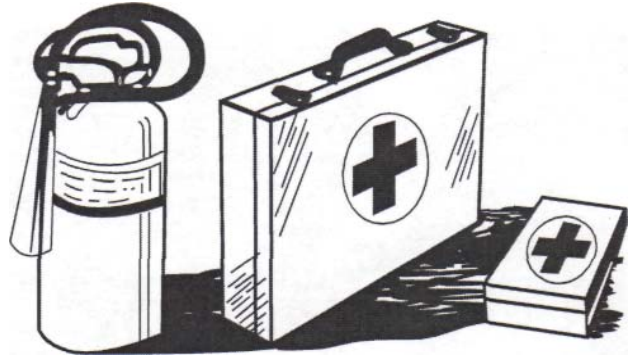
SAVE THESE INSTRUCTIONS

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



PREPARE FOR EMERGENCIES

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

Be prepared if a fire starts.

INSPECT UNIT

Be sure all covers, guards and shields are tight and in place.

Locate all operating controls and safety labels.

Inspect power cord for damage before using. There is a hazard of electrical shock from crushing, cutting or heat damage.

SERVICE UNIT SAFELY

Before servicing the unit, disconnect all equipment and battery (if equipped) and allow unit to cool down.

Service unit in a clean dry flat area.

Installation

INSTALLATION

Read safety warnings before setting-up the unit.

Ensure the oil level in the unit's pump is adequate. If low, add SAE-30W non-detergent oil.

LOCATION:

In order to avoid damaging the unit, do not incline the unit transversely or longitudinally more than 10°.

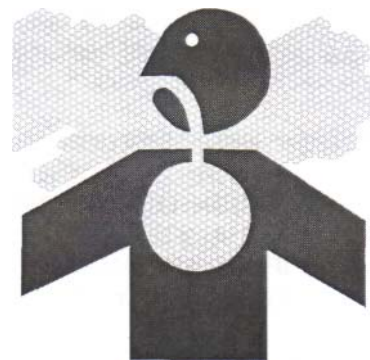


WARNING: RISK OF ASPHYXIATION!
DO NOT OPERATE IN AN ENCLOSED AREA. USE THIS PRODUCT ONLY IN WELL VENTILATED AREAS! THE EXHAUST FROM THE ENGINE CONTAINS CARBON MONOXIDE, A POISONOUS, ODORLESS AND INVISIBLE GAS. BREATHING THE GAS CAN CAUSE SERIOUS INJURY, ILLNESS AND POSSIBLE DEATH.



WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH! DO NOT ALLOW THE ENGINE OR MUFFLER TO COME IN CONTACT WITH FLAMMABLE VAPORS, COMBUSTIBLE DUST, GASES OR OTHER COMBUSTIBLE MATERIALS. A SPARK MAY CAUSE A FIRE.

WHEN USING THE UNIT FOR SPRAY PAINTING, PLACE THE UNIT AS FAR AWAY FROM THE WORK AREA AS POSSIBLE, USING EXTRA AIR HOSES IF NEEDED.



Place unit at least 12 inches away from obstacles that may prevent proper ventilation. Do not place unit in an area:

- where there is evidence of oil or gas leaks.
- where flammable gas vapors or materials may be present.
- where air temperatures fall below 32°F or exceed 104°F.
- where extremely dirty air or water could be drawn into the unit.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.



DANGER: IMPROPER CONNECTION OF THE EQUIPMENT -GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTROCUTION. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICE PERSON IF YOU ARE IN DOUBT AS TO WHETHER THE UNIT IS PROPERLY GROUNDED.

The screw and ground terminal on the frame must always be used to connect the unit to a suitable ground source. The ground path should be made with #8 size wire. Connect the terminal of the ground wire between the star washers and screw then tighten the screw fully. Connect the other end of the wire securely to a suitable ground source.

The National Electric Code contains several practical ways in which to establish a good ground source. Examples given below illustrate a few of the ways in which a good ground source may be established.

A metal underground water pipe in direct contact with the earth for at least 10 feet can be used as a grounding source. If a pipe is unavailable, an 8 foot length of pipe or rod may be used as the ground source. The pipe should be 3/4 inch trade size or larger and the outer surface must be noncorrosive. If a steel or iron rod is used it should be at least 5/8 inch diameter and if a nonferrous rod is used it should be at least 1/2 inch diameter and be listed as material for grounding. Drive the rod or pipe to a depth of 8 feet. If a rock bottom is encountered less than 4 feet down, bury the rod or pipe in a trench. All electrical tools and appliances operated from this unit, must be properly grounded by use of a third wire or be "Double Insulated".

It is recommended to:

1. Use electrical devices with 3 prong power cords.
2. Use an extension cord with a 3 hole receptacle and a 3 prong plug at the opposite ends to ensure continuity of the ground protection from the unit to appliance.

Mi-T-M strongly recommend that all applicable federal, state and local regulations relating to grounding specifications be checked and followed.

LINE TRANSFER SWITCH:

If this unit is used for standby service, it must have a transfer switch between the utility power service and the unit. The transfer switch not only prevents the utility power from feeding into the unit, but also prevents the unit from feeding out into the utility company's lines. This is intended to protect the serviceman who may be working on a damaged line.

THIS INSTALLATION MUST BE DONE BY A LICENSED ELECTRICIAN AND ALL LOCAL CODES MUST BE FOLLOWED.

GASOLINE ENGINE

Review "Risk of Fire or Explosion" before fueling. Read the engine manual accompanying this unit for correct engine start-up maintenance procedures. Read and understand the safety labels located on the unit.

WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH! DO NOT SMOKE WHILE FUELING!

DO NOT FILL FUEL TANK WHILE THE UNIT IS RUNNING OR HOT. ALLOW THE UNIT AND ENGINE TO COOL DOWN FOR TWO MINUTES BEFORE REFUELING.

DO NOT FILL FUEL TANK TO POINT OF OVERFLOWING. ALLOW APPROXIMATELY 1/4" OF TANK SPACE FOR FUEL EXPANSION.

DO NOT PLACE UNIT IN AN AREA WHERE FLAMMABLE GAS VAPORS MAY BE PRESENT. A SPARK COULD CAUSE AN EXPLOSION OR FIRE.

ALWAYS STORE FUEL AWAY FROM THE UNIT WHILE IT IS RUNNING OR HOT.

WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH DO NOT ALLOW THE ENGINE OR MUFFLER TO COME IN CONTACT WITH FLAMMABLE VAPORS, COMBUSTIBLE DUST, GASES OR OTHER COMBUSTIBLE MATERIALS. A SPARK MAY CAUSE A FIRE.

WHEN USING THE UNIT FOR SPRAY PAINTING, PLACE THE UNIT AS FAR AWAY FROM THE WORK AREA AS POSSIBLE, USING EXTRA AIR HOSE

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